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**CLAIMS** 

We claim:

## A compound of Formula (I): 1.

or a salt, solvate, or physiologically functional derivative thereof wherein

A is the group defined by  $(Q^4)_p-(Q^3)_n-(Q^2)_m-(Q^1)_-$ , wherein

Q1 is heterocyclyl or heterocyclylene,

 $Q^2$  is OC(O), C(O), N(H)C(O), C(O)N(H)C(O), S(O)<sub>2</sub>N(H)C(O), S(O)<sub>2</sub>, or N(H)S(O)<sub>2</sub> and m is 0 or 1,

 $Q^3$  is  $C_1-C_6$  alkyl,  $C_1-C_6$  haloalkyl,  $C_3-C_7$  cycloalkyl, aralkyl, aralkylene, aryl, arylene, heteroaryl, heteroarylene, heterocyclyl, or heterocyclylene, and n is 0 or 1, and

 $Q^4$  is  $C_1$ – $C_6$  alkyl,  $C_1$ – $C_6$  haloalkyl, aryl, aryloxy, heteroaryl, halo, or cyano, and p is 0, 1, or 2;

D is O or S;

R is hydrogen or  $-N(R^1)-R^2-R^3$ ;

R¹is hydrogen or C1-C6 alkyl;

 $R^2$  is C(O), C(O)O, C(O)N(H), SO<sub>2</sub>, or SO<sub>2</sub>N(H);

R<sup>3</sup> is hydrogen or C<sub>1</sub>-C<sub>6</sub> alkyl;

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Z is the group defined by  $-(X)_m-(X^1)$ , wherein

X is C(R')(R''), wherein R' is hydrogen or  $C_1$ - $C_6$  alkyl, R" is hydrogen or  $C_1$ - $C_6$  alkyl, and m is 0, 1, or 2; and  $X^1$  is aryl, heteroaryl, or heterocyclyl.

## 2. A compound of Formula (II):

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or a salt, solvate, or physiologically functional derivative thereof wherein

A' is the group defined by  $(Q^4)_p$ – $(Q^3)_n$ – $(Q^2)_m$ –, wherein

 $Q^2$  is OC(O), C(O), N(H)C(O), C(O)N(H)C(O), S(O)<sub>2</sub>N(H)C(O), S(O)<sub>2</sub>, or N(H)S(O)<sub>2</sub> and m is 0 or 1,

 $Q^3$  is  $C_1$ - $C_6$  alkyl,  $C_1$ - $C_6$  haloalkyl,  $C_3$ - $C_7$  cycloalkyl, aralkyl, aralkylene, arylene, heteroaryl, heteroarylene, heterocyclyl, or heterocyclylene, and n is 0 or 1, and

 $Q^4$  is  $C_1$ - $C_6$  alkyl,  $C_1$ - $C_6$  haloalkyl, aryl, aryloxy, heteroaryl, halo, or cyano, and p is 0, 1, or 2;

Rais hydrogen or oxo;

Rb is hydrogen or C1-C6 alkyl;

R<sup>c</sup> is hydrogen or C<sub>1</sub>-C<sub>6</sub> alkyl;

R is hydrogen or  $-N(R^1)-R^2-R^3$ ;

R1is hydrogen or C1-C6 alkyl;

 $R^2$  is C(O), C(O)O, C(O)N(H), SO<sub>2</sub>, or SO<sub>2</sub>N(H);

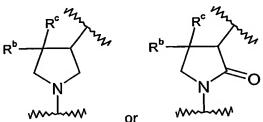
R³ is hydrogen or C1-C6 alkyl;

Z is the group defined by  $-(X)_m-(X^1)$ , wherein X is C(R')(R''), wherein R' is hydrogen or  $C_1-C_6$  alkyl, R'' is hydrogen or  $C_1-C_6$  alkyl, and m is 0, 1, or 2; and  $X^1$  is aryl, heteroaryl, or heterocyclyl.

- 3. A compound as claimed in claim 1, wherein m is 0, n is 0, and p is 0 and A is  $(0^1)$ -.
- 4. A compound as claimed in claim 1, wherein n is 0, p is 0 and A is  $(Q^2)_m-(Q^1)-$ .
- 5. A compound as claimed in claim 1, wherein p is 0 and A is  $(Q^3)_{n-}(Q^2)_{m-}(Q^1)_{-}$ .
- 6. A compound as claimed in claim 1, wherein m is 0, n is 1, p is 0, 1, or 2, and A is  $(Q^4)_p-(Q^3)-(Q^1)-$ .
- 7. A compound as claimed in claim 1, wherein  $Q^1$  is heterocyclyl.
- 8. A compound as claimed in claim 1, wherein  $Q^1$  is heterocyclylene.
- 9. A compound as claimed in claim 1, wherein  $Q^1$  is selected from the group

wherein Rb is hydrogen or C1-C6 alkyl and Rc is hydrogen or C1-C6 alkyl.

10. A compound as claimed in claim 1, wherein  $Q^1$  is selected from the group



, wherein  $R^b$  is hydrogen or  $C_1$ - $C_6$  alkyl and

R<sup>c</sup> is hydrogen or C<sub>1</sub>-C<sub>6</sub> alkyl.

11. A compound as claimed in claim 1, wherein  $Q^1$  is

, wherein  $R^{\text{b}}$  is hydrogen or  $\text{C}_1\text{--}\text{C}_6$  alkyl and  $R^{\text{c}}$  is hydrogen or  $\text{C}_1\text{--}\text{C}_6$ 

alkyl.

12. A compound as claimed in claim 1, wherein  $Q^1$  is selected from the group

, wherein  $R^{\text{b}}$  is hydrogen or  $\text{C}_1\text{--}\text{C}_{\text{b}}$  alkyl and

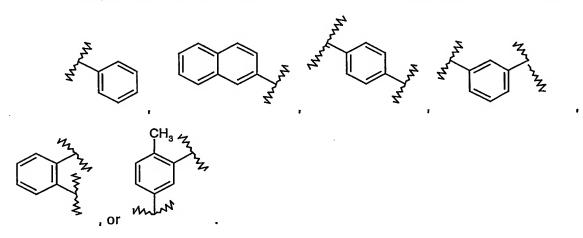
 $R^c$  is hydrogen or  $C_1$ – $C_6$  alkyl.

13. A compound as claimed in claim 1, wherein Q<sup>1</sup> is selected from the group

, wherein  $R^b$  is hydrogen or  $C_1\text{--}C_6$  alkyl and  $R^c$  is hydrogen or  $C_1\text{--}C_6$ 

alkyl.

- 14. A compound as claimed in claim 1 or 2, wherein m is 1 and  $Q^2$  is OC(0), C(0), N(H)C(0), S(0)<sub>2</sub>, or N(H)S(0)<sub>2</sub>.
- 15. A compound as claimed in claim 1 or 2, wherein m is 1 and  $Q^2$  is OC(0) or C(0).
- 16. A compound as claimed in claim 1 or 2, wherein m is 1 and  $Q^2$  is C(0).
- 17. A compound as claimed in claim 1 or 2, wherein m is 1 and  $Q^2$  is N(H)C(O).
- 18. A compound as claimed in claim 1 or 2, wherein m is 1 and  $Q^2$  is  $S(0)_2$ .
- 19. A compound as claimed in claim 1 or 2, wherein n is 1 and  $Q^3$  is anylor arylene, heteroaryl or heterocyclyl or heterocyclylene, or aralkylene.
- 20. A compound as claimed in claim 1 or 2, wherein,  $Q^3$  is anylor anylone.
- 21. A compound as claimed in claim 1 or 2, wherein  $Q^3$  is selected from the group



22. A compound as claimed in claim 1 or 2, wherein  $Q^3$  is

- 23. A compound as claimed in claim 1 or 2, wherein  $Q^3$  is analyst or analystene.
- 24. A compound as claimed in claim 1 or 2, wherein  $\Omega^3$  is selected from the group

25. A compound as claimed in claim 1 or 2, wherein Q3 is selected from the

26. A compound as claimed in claim 2, wherein  $Q^3$  is selected from the

- 27. A compound as claimed in claim 1 or 2, wherein  $\mathbf{Q}^3$  is heteroaryl or heteroarylene.
- 28. A compound as claimed in claim 1 or 2, wherein  $Q^3$  is selected from the group

- 29. A compound as claimed in claim 1 or 2, wherein  $Q^3$  is heterocyclyl or heterocyclylene.
- 30. A compound as claimed in claim 1 or 2, wherein Q<sup>3</sup> is selected from the group

- 31. A compound as claimed in claim 1 or 2, wherein  $Q^4$  is methyl, tert-butyl, -CF<sub>3</sub>, phenyl, phenoxy, isoxazolyl, thiadiazolyl, thienyl, pyrazinyl, fluoro, chloro, cyano, and p is 1 or 2.
- 32. A compound as claimed in claim 1 or 2, wherein  $Q^4$  is methyl, tert-butyl, -CF<sub>3</sub>, phenyl, phenoxy, and fluoro and p is 1 or 2.

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- 33. A compound as claimed in claim 1 or 2, wherein  $Q^4$  is methyl, and p is 1.
- 34. A compound as claimed in claim 1 or 2, wherein D is O.
- 35. A compound as claimed in claim 1 or 2, wherein R is hydrogen.
- 36. A compound as recited in claim 1 or 2, wherein m is 0 and Z is -(X1).
- 37. A compound as claimed in claim 1 or 2, wherein X is CHR", R" is hydrogen and m is 0, 1, or 2,
- 38. A compound as claimed in claim 1 or 2, wherein X is CHR", R" is −CH₃ and m is

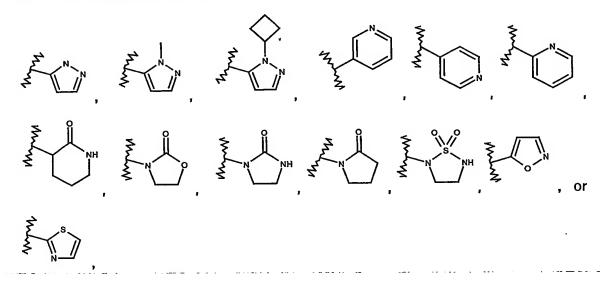
1.

- 39. A compound as claimed in claim 1 or 2, wherein  $X^1$  is aryl.
- 40. A compound as claimed in claim 1 or 2, wherein X<sup>1</sup> is

41. A compound as claimed in claim 1 or 2, wherein  $X^1$  is heteroaryl or heterocyclyl.

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A compound as claimed in claim 1 or 2, wherein  $X^1$  is 42.



A compound as claimed in claim 1, selected from the group consisting of: 43.

(3S)-4,4-dimethyl-2-oxotetrahydro-3-furanyl (1S)-1-(oxo{[(1R)-1-phenylethyl] amino acetyl) pentylcarbamate;

(3S)-4,4-dimethyl-2-oxotetrahydro-3-furanyl (1S)-5-{[(methylamino) carbonyl]  $amino\}-1-(oxo\{[(1R)-1-phenylethyl]amino\}acetyl)pentylcarbamate;$ 

(4S)-4-ethyl-4-methyl-2-oxotetrahydro-3-furanyl (1S)-1- $(oxo\{[(1R)$ -1phenylethyl]amino}acetyl)pentylcarbamate:

1-benzyl-4,4-dimethyl-2-oxo-3-pyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl] amino} acetyl) pentylcarbamate;

benzyl 4,4-dimethyl-2-oxo-3-[({[(1S)-1-(oxo{[(1R)-1-phenylethyl]amino} acetyl) pentyllamino {carbonyl)oxy]-1-pyrrolidinecarboxylate;

3S)-4,4-dimethyl-2-oxopyrrolidinyl (1S)-1-(1-hydroxy-2-oxo-2-{[(1R)-1phenylethyl]amino}ethyl)pentylcarbamate;

(3R)-4,4-dimethyl-2-oxopyrrolidinyl (1S)-1-(1-hydroxy-2-oxo-2-{[(1R)-1phenylethyl] amino}ethyl)pentylcarbamate;

1,4,4-trimethyl-2-oxo-3-pyrrolidinyl (1S)-1-(oxo{[(1R)-1phenylethyl]amino}acetyl)pentylcarbamate;

(3S)-1-benzyl-4,4-dimethylpyrrolidinyl 1-(oxo{[(1R)-1phenylethyl]amino}acetyl)pentylcarbamate;

- (3S)-1-benzoyl-4,4-dimethylpyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;
- $(3S)-1-acetyl-4,4-dimethylpyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;$
- $(3S)-4,4-dimethyl-1-(phenylacetyl)pyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;$
- $(3S)-1-(5-isoxazolylcarbonyl)-4,4-dimethylpyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;$
- $(3S)-4,4-dimethyl-1-[(4-methyl-1,2,3-thiadiazol-5-yl)carbonyl]pyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;$
- $(3S)-1-[(3-tert-butyl-1-methyl-1H-pyrazol-5-yl)carbonyl]-4,4-dimethylpyrrolidinyl (1S)-1-(oxo{[(1R)_1-phenylethyl]amino}acetyl)pentylcarbamate;$
- (3S)-4,4-dimethyl-1-[(5-methyl-2-phenyl-2H-1,2,3-triazol-4-yl)carbonyl]pyrrolidinyl (1S)-1-( $oxo\{[(1R)-1-phenylethyl]amino\}acetyl)pentylcarbamate;$
- $(3S)-1-(1,3-benzodioxol-5-ylcarbonyl)-4,4-dimethylpyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;$
- $(3S)-1-(1-benzothien-2-ylcarbonyl)-4,4-dimethylpyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;$
- (3S)-4.4-dimethyl-1-(2-naphthoyl)pyrrolidinyl  $(1S)-1-(oxo\{[(1R)-1-phenylethyl]amino\}$ acetyl)pentylcarbamate;
- (3S)-4,4-dimethyl-1-[(5-methyl-3-isoxazolyl)carbonyl]pyrrolidinyl (1S)-1-(oxo $\{[(1R)-1-phenylethyl]amino\}$ acetyl)pentylcarbamate;
- $(3S)-1-([1,1'-biphenyl]-4-ylcarbonyl)-4,4-dimethylpyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;$
- $(3S)-1-(1H-indol-5-y|carbony|)-4,4-dimethy|pyrrolidiny| (1S)-1-(oxo{[(1R)-1-pheny|ethy|]amino}acety|)penty|carbamate;$
- $(3S)-1-(1H-1,2,3-benzotriazol-5-ylcarbonyl)-4,4-dimethylpyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;$
- $(3S)-4.4-dimethyl-1-[(3-phenoxyphenyl)acetyl]pyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;$
- $(3S)-4.4-dimethyl-1-(4-phenylbutanoyl)pyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;$

- $(3S)-1-[(4-tert-butylphenyl)acetyl]-4,4-dimethylpyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;$
- $(3S)-4,4-dimethyl-1-\{[2-(4-pyridinyl)-1,3-thiazol-4-yl]carbonyl\}pyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;$
- (3S)-4,4-dimethyl-1-[(5-methyl-3-phenyl-4-isoxazolyl)carbonyl]pyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;
- (3S)-4,4-dimethyl-1-[(1-methyl-1H-indol-2-yl)carbonyl]pyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;
- $(3S)-4,4-dimethyl-1-(3-quinolinylcarbonyl)pyrrolidinyl 1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;$
- $(3S)-1-([1,1'-biphenyl]-4-ylacetyl)-4,4-dimethylpyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;$
- $(3S)-4,4-dimethyl-1-[(2-phenoxyphenyl)acetyl]pyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;$
- $(3S)-1-(1H-indol-2-ylcarbonyl)-4,4-dimethylpyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;$
- (3S)-4,4-dimethyl-1-(3-pyridinylacetyl)pyrrolidinyl 1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;
- (3S)-4,4-dimethyl-1-(1H-1,2,4-triazol-3-ylcarbonyl)pyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;
- (3S)-4,4-dimethyl-1-[(3-methyl-5-isoxazolyl)acetyl]pyrrolidinyl  $(1S)-1-(oxo\{[(1R)-1-phenylethyl]amino\}acetyl)$ pentylcarbamate;
- $(3S)-1-(1H-indazol-3-ylcarbonyl)-4,4-dimethylpyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;$
- (3S)-4,4-dimethyl-1- $\{[2-(4-methyl-1,2,3-thiadiazol-5-yl)-1,3-thiazol-4-yl]carbonyl\}$ pyrrolidinyl (1S)-1- $\{[(1R)-1-phenylethyl]amino\}$ acetyl)pentylcarbamate;
- $(3S)-4,4-dimethyl-1-\{[2-(2-pyrazinyl)-1,3-thiazol-4-yl]acetyl\}$  pyrrolidinyl  $(1S)-1-(oxo\{[(1R)-1-phenylethyl]amino\}$  acetyl)pentylcarbamate;
- $(3S)-1-[(4-fluorophenyl)acetyl]-4,4-dimethylpyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;$

 $[1,1'-biphenyl]-4-ylmethyl (4S)-3,3-dimethyl-4-[({[(1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentyl]amino}carbonyl)oxy]-1-pyrrolidinecarboxylate;$ 

tetrahydro-2-furanylmethyl (4S)-3,3-dimethyl-4- $[(\{[(1S)-1-(oxo\{[(1R)-1-phenylethyl]amino\}acetyl)pentyl]amino\}carbonyl)oxy]-1-pyrrolidinecarboxylate;$ 

3-thienylmethyl (4S)-3,3-dimethyl-4-[({[(1S)-1-(oxo{[(1R)-1-pyrrolidinecarboxylate;

(3S)-tetrahydro-3-furanyl (4S)-3,3-dimethyl-4-[({[(1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentyl]amino}carbonyl)oxy]-1-pyrrolidinecarboxylate;

benzyl (4S)-3,3-dimethyl-4-[( $\{[(1S)-1-(oxo\{[(1R)-1-phenylethyl]amino\}acetyl)pentyl]amino\}carbonyl)oxy]-1-pyrrolidinecarboxylate;$ 

2-phenylethyl (4S)-3,3-dimethyl-4-[({[(1S)-1-(oxo{[(1R)-1-pyrrolidinecarboxylate;

 $(1-phenyl-1H-1,2,3-triazol-4-yl)methyl (4S)-3,3-dimethyl-4-[({[(1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentyl]amino}carbonyl)oxy]-1-pyrrolidinecarboxylate;$ 

2-(2-oxo-1-pyrrolidinyl)ethyl (4S)-3,3-dimethyl-4-[({[(1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)}entyl]amino}carbonyl)oxy]-1-pyrrolidinecarboxylate;

tetrahydro-2H-pyran-2-ylmethyl (4S)-3,3-dimethyl-4- $[(\{[(1S)-1-(oxo\{[(1R)-1-phenylethyl]amino\}acetyl)pentyl]amino\}carbonyl)oxy]-1-pyrrolidinecarboxylate;$ 

tetrahydro-3-furanylmethyl (4S)-3,3-dimethyl-4-[({[(1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentyl]amino}carbonyl)oxy]-1-pyrrolidinecarboxylate;

[3-methyl-5-(5-methyl-isoxazol-3-yl)-4-isoxazolyl]methyl (4S)-3,3-dimethyl-4-  $[(\{[(1S)-1-(oxo\{[(1R)-1-phenylethyl]amino\}acetyl)pentyl]amino\}carbonyl)oxy]-1-pyrrolidinecarboxylate;$ 

 $2-(4-methyl-1,3-thiazol-5-yl)ethyl (4S)-3,3-dimethyl-4-[({[(1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentyl]amino}carbonyl)oxy]-1-pyrrolidinecarboxylate;$ 

 $(5-methyl-3-isoxazolyl) methyl (4S)-3,3-dimethyl-4-[(\{[(1S)-1-(oxo\{[(1R)-1-phenylethyl]amino\}acetyl)pentyl]amino\}carbonyl) oxy]-1-pyrrolidinecarboxylate;$ 

[3-(2,6-dichlorophenyl)-5-methyl-4-isoxazolyl]methyl (4S)-3,3-dimethyl-4- $[(\{(1S)-1-(\infty \{((1R)-1-phenylethyl]amino\}acetyl)pentyl]$ amino}carbonyl)oxy]-1-pyrrolidinecarboxylate;

(2-methyl[1,1'-biphenyl]-3-yl)methyl (4S)-3,3-dimethyl-4-[({[(1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentyl]amino}carbonyl)oxy]-1-pyrrolidinecarboxylate;

- [5-(2-thienyl)-1,2,4-oxadiazol-3-yl]methyl  $(4S)-3,3-dimethyl-4-[({[(1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentyl]amino}carbonyl)oxy]-1-pyrrolidinecarboxylate;$
- (3R)-tetrahydro-3-furanyl (4S)-3,3-dimethyl-4-[({[(1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentyl]amino}carbonyl)oxy]-1-pyrrolidinecarboxylate;
- [1,1'-biphenyl]-4-yl (4S)-3,3-dimethyl-4-[({[(1S)-1-(oxo{[(1R)-1-pyrrolidinecarboxylate;
- 4-phenoxyphenyl (4S)-3,3-dimethyl-4- $[(\{[(1S)-1-(\inftyo\{[(1R)-1-phenylethyl]amino\}acetyl)pentyl]amino\}carbonyl)oxy]-1-pyrrolidinecarboxylate;$
- 3-phenoxyphenyl (4S)-3,3-dimethyl-4-[({[(1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentyl]amino}carbonyl)oxy]-1-pyrrolidinecarboxylate;
- 2-naphthyl (4S)-3,3-dimethyl-4-[({[(1S)-1-(oxo{[(1R)-1-pyrrolidinecarboxylate;
- 4-(1,2,3-thiadiazol-4-yl)phenyl (4S)-3,3-dimethyl-4-[({[(1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)}pentyl]amino}carbonyl)oxy]-1-pyrrolidinecarboxylate;
- phenyl 3,3-dimethyl-4-[({[(1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentyl]amino}carbonyl)oxy]-1-pyrrolidinecarboxylate;
- (3S)-1-(anilinocarbonyl)-4,4-dimethylpyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;
- $(3S)-1-[(benzylamino)carbonyl]-4,4-dimethylpyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;)$
- $(3S)-4,4-dimethyl-1-\{[(2-phenylethyl)amino]carbonyl\}pyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;$
- $(3S)-4,4-dimethyl-1-(3-pyridinylcarbonyl)pyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;$
- (3S)-1-{[(3,5-dimethyl-4-isoxazolyl)amino]carbonyl}-4,4-dimethylpyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;
- (3S)-1-[(cyclohexylamino)carbonyl]-4,4-dimethylpyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;
- $(3S)-1-[(4-cyanoanilino)carbonyl]-4.4-dimethylpyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;$
- (3S)-4,4-dimethyl-1-{[4-(trifluoromethyl)anilino]carbonyl}pyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate:

- (3S)-4,4-dimethyl-1-{[4-(trifluoromethyl)anilino]carbonyl}pyrrolidinyl (1S)-1-[oxo(1H-pyrazol-5-ylamino)acetyl]pentylcarbamate;
- (3S)-1-[(5-fluoro-2-methylanilino)carbonyl]-4,4-dimethylpyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;
- (3S)-4,4-dimethyl-1-(4-morpholinylcarbonyl)pyrrolidinyl  $(1S)-1-(oxo\{[(1R)-1-phenylethyl]amino\}$ acetyl)pentylcarbamate;
- (3S)-4,4-dimethyl-1-(1-pyrrolidinylcarbonyl)pyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;
- $(3S)-1-[(benzoylamino)carbonyl]-4,4-dimethylpyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;$
- (3S)-4,4-dimethyl-1-({[(4-methylphenyl)sulfonyl]amino}carbonyl)pyrrolidinyl (1S)-1- ----- (oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;
- $(3S)-4,4-dimethyl-1-(phenylsulfonyl)pyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;$
- $(3S)-1-(benzylsulfonyl)-4,4-dimethylpyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;$
- (3S)-1-(1,3-benzodioxol-5-ylsulfonyl)-4,4-dimethylpyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl] amino} acetyl) pentylcarbamate;
- (3S)-1-(2,3-dihydro-1,4-benzodioxin-6-ylsulfonyl)-4,4-dimethylpyrrolidinyl (1S)-1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;
- (3S)-1-(1,3-benzothiazol-2-yl)-4,4-dimethylpyrrolidinyl (1S)-1-[oxo(1H-pyrazol-5-ylamino)acetyl]pentylcarbamate;
- (3S)-4,4-dimethyl-1-[5-(trifluoromethyl)-1,3,4-thiadiazol-2-yl]pyrrolidinyl (1S)-1-[oxo(1H-pyrazol-5-ylamino)acetyl]pentylcarbamate; and
- (3S)-4,4-dimethyltetrahydro-3-furanyl 1-(oxo{[(1R)-1-phenylethyl]amino}acetyl)pentylcarbamate;

or a salt, solvate, or physiologically functional derivative thereof.

44. A pharmaceutical composition comprising a therapeutically effective amount of a compound as claimed in claims 1 to 43, or a salt, solvate, or a physiologically

functional derivative thereof and one or more of pharmaceutically acceptable carriers, diluents and excipients.

- 45. A method of treating a disorder in a mammal, said disorder being characterized by an imbalance between bone resorption and formation which can ultimately lead to fracture, comprising: administering to said mammal a therapeutically effective amount of a compound as claimed in claims 1 to 43 or a salt, solvate or a physiologically functional derivative thereof.
- 46. A method of treating a disorder in a mammal, said disorder being characterized by bone loss, comprising: administering to said mammal a therapeutically effective amount—of—a compound—as—claimed—in—claims—1—to—43—or—a—salt, solvate—or—a—physiologically functional derivative thereof.
- 47. A compound as claimed in claims 1 to 43, or a salt, solvate, or a physiologically functional derivative thereof for use in therapy.
- 48. Use of a compound as claimed in claims 1 to 43, or a salt, solvate, or a physiologically functional derivative thereof in the preparation of a medicament for use in the treatment of a disorder characterized by bone loss.
- 49. A method of treating osteoporosis, comprising: administering to said mammal a therapeutically effective amount of a compound as claimed in claims 1 to 43, or a salt, solvate or physiologically functional derivative thereof.
- 50. A method of treating osteoporosis, comprising: administering to said mammal therapeutically effective amounts of (i) a compound as claimed in claims 1 to 43, or a salt, solvate or physiologically functional derivative thereof and (ii) at least one bone building agent.